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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/769,576	01/25/2001	Bin-Shing Chen	3308	4502
75	90 10/25/2002			
Niro, Scavone, Haller & Niro Suite 4600 181 West Madison Street			EXAMINER	
			TRAN, THIEN F	
Chicago, IL 60	0602-4515		ART UNIT	PAPER NUMBER
			2811	44

DATE MAILED: 10/25/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

•		Application No.	Applicant(s)
Office Action Summary		09/769,576	CHEN, BIN-SHING
		Examiner	Art Unit
		Thien F Tran	2811
Period fo	The MAILING DATE of this communic or Reply	ation appears on the cover sheet w	vith the correspondence address
A SH THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nsions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum stature to reply within the set or extended period for reply were ply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, however, may a nication. days, a reply within the statutory minimum of the story period will apply and will expire SIX (6) MC tory period will apply and will expire SIX (6) MC tory period will apply and will expire SIX (6) MC to be come or the statute, cause the application to become or the statute.	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
1)	Responsive to communication(s) file	d on	
2a)⊠	This action is FINAL . 2	b) This action is non-final.	
3)□ Disposit	Since this application is in condition closed in accordance with the praction of Claims		atters, prosecution as to the merits is C.D. 11, 453 O.G. 213.
4) 🖾	Claim(s) 1-14 is/are pending in the a	oplication.	
	4a) Of the above claim(s) 1-10 is/are v	vithdrawn from consideration.	
5)	Claim(s) is/are allowed.		
6)	Claim(s) is/are rejected.		
7)	Claim(s) is/are objected to.		
8) 🗌	Claim(s) are subject to restricti	on and/or election requirement.	
Applicat	ion Papers		
• —	The specification is objected to by the		
10)	The drawing(s) filed on is/are: a		
	Applicant may not request that any obje		
11)	The proposed drawing correction filed		disapproved by the Examiner.
	If approved, corrected drawings are requ		
,	The oath or declaration is objected to I	by the Examiner.	
•	under 35 U.S.C. §§ 119 and 120		0.440(-) (4) (0
-	Acknowledgment is made of a claim f	or foreign priority under 35 0.5.0	. § 119(a)-(d) or (i).
a)	☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority d		Application No.
		ocuments have been received in	
* (3. Copies of the certified copies o application from the Internasee the attached detailed Office action	tional Bureau (PCT Rule 17.2(a))).
14) 🔲 /	Acknowledgment is made of a claim fo	r domestic priority under 35 U.S.C	C. § 119(e) (to a provisional application).
	i) The translation of the foreign lange Acknowledgment is made of a claim fo		
Attachmer	at(s)		
1) Notic	ce of References Cited (PTO-892)	4) 🔲 Interview	w Summary (PTO-413) Paper No(s)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

Notice of Informal Patent Application (PTO-152)

5) 🗌

6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 11-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Fukumoto (US 5,753,953).

Fukumoto discloses the claimed EEPROM device (Fig. 1) comprising a silicon substrate 1 having a source/drain region 2; a tunnel oxide layer 4 disposed over the silicon substrate; a select gate 6 disposed over the tunnel oxide layer, wherein the select gate is defined by conductive layer covered with a first insulated material 8a thereon and comprises a sidewall 8 made of a second insulated material; a floating gate 7 above the drain region 2 aligned to one side of the select gate; a third insulated material 10 disposed over the tunnel oxide layer, the select gate and the floating gate; and a control gate 9 formed on the third insulated material.

Regarding claim 12, each of the first insulated material, the second insulated material and the third insulated material is one selected from a group consisting of silicon oxide, silicon nitride and silicon oxide/nitride composite.

Regarding claim 13, the conductive layer is made of polysilicon.

Regarding claim 14, the floating gate and the control gate are made of polysilicon.

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Response to Arguments

Applicant's arguments filed 08-14-2002 have been fully considered but they are not persuasive. Applicant argues that two traditional floating gates 7 respectively aligned to two sides of the select gate 6 are disclosed in Fig. 1 of Fukumoto and claim 11 requires that the floating gate be aligned to one side of the select gate. First, claim 11 requiring the floating gate aligned to one side of the select gate does not mean that the floating gate be aligned exclusively to only one side of the select gate, aligning to the other side of the floating gate is not excluded by the claim. Secondly, Fukumoto clearly discloses only one sidewall above the drain region 2 working as a floating gate 7 (col. 8, lines 1-2); therefore, there are no two traditional floating gates 7 aligned to two sides of the select gate 6 as alleged by applicant.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thien F Tran whose telephone number is (703) 308-4108. The examiner can normally be reached on 8:00AM - 4:30PM Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (703) 308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

tt October 23, 2002

TOM THOMAS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800